

PHOTOGRAPHIC SYSTEM REQUIREMENTS FOR RECONNAISSANCE VEHICLETechnical Objective Photography

- (1) Purpose: A camera system is required for recording highly specific information of relatively few areas to provide detailed information on the development of enemy scientific warfare equipment and techniques to prevent technological surprise.
- (2) Qualitative Requirements: To record low contrast objects 1' on a side on the ground, these objects to be measured with an accuracy within 5% of their true dimension over 90% of the total format area. Overall response of the system will be equal to the maximum number of gray tones possible on an extra long scale chlorobromide print.
- (3) Viewing Requirements: Present viewing techniques and equipment used by photo interpreters are inadequate and new items and methods must be developed to meet the recognition characteristics of this system. Rapid stereo viewing of positive transparencies is recommended.

Operational Objective Photography

- (1) Purpose: A camera system is required for recording information over selected areas for air, anti-aircraft and radar order of battle, for detailed target analysis, for operational information to determine enemy strengths and purposes, and to be used as a basic source for standard target materials.
- (2) Qualitative Requirements: To record low contrast objects 5' on a side on the ground, these objects to be measured with an accuracy within 10% of their true dimension over 75% of the total format area. Overall response of the system will be equal to the maximum number of gray tones possible on an extra long scale chlorobromide print.
- (3) Viewing Requirements: Present viewing techniques and equipment used by photo interpreters are inadequate and new items and methods must be developed to meet the recognition characteristics of this system. Rapid stereo viewing of positive transparencies is recommended.

Terrain Objective Photography

- (1) Purpose: A camera system is required for surveying large areas of terrain for location and preliminary identification of previously unknown enemy installations, to locate large individual targets, to integrate target systems and to be used as primary source material for maps and charts.
- (2) Qualitative Requirements: To record low contrast objects 20' on a side on the ground, these objects to be measured with an accuracy within 20% of their true dimension over 50% of the total format area. Overall response of the system will be equal to the maximum number of gray tones possible on an extra long scale chlorobromide print.
- (3) Viewing Requirements: The collected image presentation must be usable in present photogrammetric equipment for the compilation of maps and charts.